SEQUENCE LISTING

<110> Edwards Jr., John E., et al.

<120> Pharmaceutical Compositions and Methods to Vaccinate Against
Disseminated Candidiasis.

<130> 13361.4001

<140> US 09/715,876
<141> 2000-11-18

<160> 8

<170> PatentIn version 3.0

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gccaatccag gggatacatt cacattgaat atgccatgtg tgtttaaata tactacttca   240

caaacatctg ttgatttaac tgccgatggt gttaaatatg ctacttgtca attttattct   300

ggtgaagaat tcacaacttt ttctacatta acatgtactg tgaacgacgc tttgaaatca   360

tccattaagg catttggtac agttacttta ccaattgcat tcaatgttgg tggaacaggt   420

tcatcaactg atttggaaga ttctaaatgt tttactgctg gtaccaatac agtcacattt   480

aatgatggtg ataaagatat ctcaattgat gttgagtttg aaaagtcaac cgttgatcca   540

agtgcatatt tgtatgcttc cagagttatg ccaagtctca ataaggtcac aactcttttt   600

gtggcaccac aatgtgaaaa tggttacaca tctggtacaa tggggttctc cagtagtaac   660

ggtgacgttg ctattgattg ctcaaatatt catattggta tcacaaaagg attaaatgat   720

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cctattccaa ccactaccat cacaacttca tatgttggtg tgactacttc ctatctgact   1140

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caatctactt ccactgaaat tgaaattgta acaaccagtt ctactaaagt tttaccacct      3000

gtcgtttctt ctaatactga tttgactagt gaaccaacaa ataccagaga acaaccaact      3060

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                20   25   30

Ser Asn Ala Ala Asn Tyr Ala Phe Lys Gly Pro Gly Tyr Pro Thr Trp
            35   40   45

Asn Ala Val Leu Gly Trp Ser Leu Asp Gly Thr Ser Ala Asn Pro Gly
        50   55   60

Asp Thr Phe Thr Leu Asn Met Pro Cys Val Phe Lys Tyr Thr Thr Ser
65   70   75   80

Gln Thr Ser Val Asp Leu Thr Ala Asp Gly Val Lys Tyr Ala Thr Cys
           85   90   95

Gln Phe Tyr Ser Gly Glu Glu Phe Thr Thr Phe Ser Thr Leu Thr Cys
          100   105   110

Thr Val Asn Asp Ala Leu Lys Ser Ser Ile Lys Ala Phe Gly Thr Val
          115   120   125

Thr Leu Pro Ile Ala Phe Asn Val Gly Gly Thr Gly Ser Ser Thr Asp
     130   135   140

Leu Glu Asp Ser Lys Cys Phe Thr Ala Gly Thr Asn Thr Val Thr Phe
145   150   155   160

Asn Asp Gly Asp Lys Asp Ile Ser Ile Asp Val Glu Phe Glu Lys Ser
          165   170   175

Thr Val Asp Pro Ser Ala Tyr Leu Tyr Ala Ser Arg Val Met Pro Ser
          180   185   190

Leu Asn Lys Val Thr Thr Leu Phe Val Ala Pro Gln Cys Glu Asn Gly
          195   200   205

Tyr Thr Ser Gly Thr Met Gly Phe Ser Ser Ser Asn Gly Asp Val Ala
     210   215   220

Ile Asp Cys Ser Asn Ile His Ile Gly Ile Thr Lys Gly Leu Asn Asp
225   230   235   240

Trp Asn Tyr Pro Val Ser Ser Glu Ser Phe Ser Tyr Thr Lys Thr Cys
          245   250   255

Thr Ser Asn Gly Ile Gln Ile Lys Tyr Gln Asn Val Pro Ala Gly Tyr
          260   265   270

Arg Pro Phe Ile Asp Ala Tyr Ile Ser Ala Thr Asp Val Asn Gln Tyr
          275   280   285

Thr Leu Ala Tyr Thr Asn Asp Tyr Thr Cys Ala Gly Ser Arg Leu Gln
          290   295   300

Ser Lys Pro Phe Thr Leu Arg Trp Thr Gly Tyr Lys Asn Ser Asp Ala
305   310   315   320

Gly Ser Asn Gly Ile Val Ile Val Ala Thr Thr Arg Thr Val Thr Asp
          325   330   335

Ser Thr Thr Ala Val Thr Thr Leu Pro Phe Asn Pro Ser Val Asp Lys
          340   345   350

Thr Lys Thr Ile Glu Ile Leu Gln Pro Ile Pro Thr Thr Thr Ile Thr
          355   360   365

Thr Ser Tyr Val Gly Val Thr Thr Ser Tyr Leu Thr Lys Thr Ala Pro
          370   375   380

Ile Gly Glu Thr Ala Thr Val Ile Val Asp Val Pro Tyr His Thr Thr
385   390   395   400

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Arg Thr Asn Pro Thr Asp Ser Ile Asp Thr Val Val Val Gln Val Pro
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Leu Pro Asn Pro Thr Val Ser Thr Thr Glu Tyr Trp Ser Gln Ser Phe
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Ala Thr Thr Thr Thr Val Thr Ala Pro Pro Gly Gly Thr Asp Thr Val
    450                 455             460

Ile Ile Arg Glu Pro Pro Asn His Thr Val Thr Thr Thr Glu Tyr Trp
465                 470             475             480

Ser Gln Ser Phe Ala Thr Thr Thr Thr Val Thr Ala Pro Pro Gly Gly
            485                 490             495

Thr Asp Ser Val Ile Ile Arg Glu Pro Pro Asn Pro Thr Val Thr Thr
            500                 505             510

Thr Glu Tyr Trp Ser Gln Ser Phe Ala Thr Thr Thr Thr Val Thr Ala
            515                 520             525

Pro Pro Gly Gly Thr Asp Ser Val Ile Ile Arg Glu Pro Pro Asn Pro
    530                 535             540

Thr Val Thr Thr Thr Glu Tyr Trp Ser Gln Ser Tyr Ala Thr Thr Thr
545                 550             555             560

Thr Val Thr Ala Pro Pro Gly Gly Thr Asp Ser Val Ile Ile Arg Glu
            565                 570             575

Pro Pro Asn His Thr Val Thr Thr Thr Glu Tyr Trp Ser Gln Ser Tyr
            580                 585             590

Ala Thr Thr Thr Thr Val Thr Ala Pro Pro Gly Gly Thr Asp Thr Val
            595                 600             605

Ile Ile Arg Glu Pro Pro Asn His Thr Val Thr Thr Thr Glu Tyr Trp
    610                 615             620

Ser Gln Ser Phe Ala Thr Thr Thr Thr Val Thr Gly Pro Pro Ser Gly
625                 630             635             640

Thr Asp Thr Val Ile Ile Arg Glu Pro Pro Asn Pro Thr Val Thr Thr
            645                 650             655

Thr Glu Tyr Trp Ser Gln Ser Tyr Ala Thr Thr Thr Thr Ile Thr Ala
            660                 665             670

Pro Pro Gly Glu Thr Asp Thr Val Leu Ile Arg Glu Pro Pro Asn His
    675                 680             685

Thr Val Thr Thr Thr Glu Tyr Trp Ser Gln Ser Tyr Ala Thr Thr Thr
    690                 695             700

Thr Val Thr Ala Pro Pro Gly Glu Thr Asp Thr Val Leu Ile Arg Glu
705                 710             715             720

Pro Pro Asn His Thr Val Thr Thr Thr Glu Tyr Trp Ser Gln Ser Tyr
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Ala Thr Thr Thr Thr Val Thr Ala Pro Pro Gly Gly Thr Asp Thr Val
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Ile Ile Arg Glu Pro Pro Asn Pro Thr Val Thr Thr Thr Glu Tyr Trp
        755                   760                   765

Ser Gln Ser Phe Ala Thr Thr Thr Thr Val Thr Ala Pro Pro Gly Gly
    770                   775                   780

Thr Asp Thr Val Ile Ile Tyr Glu Ser Met Ser Ser Ser Lys Ile Ser
785                   790                   795                   800

Thr Ser Ser Asn Asp Ile Thr Ser Ile Ile Pro Ser Phe Ser Arg Pro
                805                   810                   815

His Tyr Val Asn Ser Thr Thr Ser Asp Leu Ser Thr Phe Glu Ser Ser
            820                   825                   830

Ser Met Asn Thr Pro Thr Ser Ile Ser Ser Asp Gly Met Leu Leu Ser
        835                   840                   845

Ser Thr Thr Leu Val Thr Glu Ser Glu Thr Thr Thr Glu Leu Ile Cys
    850                   855                   860

Ser Asp Gly Lys Glu Cys Ser Arg Leu Ser Ser Ser Ser Gly Ile Val
865                   870                   875                   880

Thr Asn Pro Asp Ser Asn Glu Ser Ser Ile Val Thr Ser Thr Val Pro
                885                   890                   895

Thr Ala Ser Thr Met Ser Asp Ser Leu Ser Ser Thr Asp Gly Ile Ser
            900                   905                   910

Ala Thr Ser Ser Asp Asn Val Ser Lys Ser Gly Val Ser Val Thr Thr
        915                   920                   925

Glu Thr Ser Val Thr Thr Ile Gln Thr Thr Pro Asn Pro Leu Ser Ser
    930                   935                   940

Ser Val Thr Ser Leu Thr Gln Leu Ser Ser Ile Pro Ser Val Ser Glu
945                   950                   955                   960

Ser Glu Ser Lys Val Thr Phe Thr Ser Asn Gly Asp Asn Gln Ser Gly
                965                   970                   975

Thr His Asp Ser Gln Ser Thr Ser Thr Glu Ile Glu Ile Val Thr Thr
            980                   985                   990

Ser Ser Thr Lys Val Leu Pro Pro  Val Val Ser Ser Asn  Thr Asp Leu
        995                   1000                  1005

Thr Ser  Glu Pro Thr Asn Thr  Arg Glu Gln Pro Thr  Thr Leu Ser
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Met Gly  Glu Asn Ser Gly Leu  Thr Thr Ser Thr Glu  Ile Glu Ala
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Thr Thr  Thr Ser Pro Thr Glu  Ala Pro Ser Pro Ala  Val Ser Ser
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Gly Thr  Asp Val Thr Thr Glu  Pro Thr Asp Thr Arg  Glu Gln Pro
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Thr Thr  Leu Ser Thr Thr Ser  Lys Thr Asn Ser Glu  Leu Val Ala
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Asp Leu  Thr Ser Ser Leu Thr  Thr Gly Thr Ser Ala  Ser Thr Ser
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Val Ala  Ser Ala Ser Asn Asp  Gln Ser His Ser Thr  Ser Val Thr
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Ser Thr  Tyr Asp Gly Ser Gly  Ser Ile Ile Gln His  Ser Thr Trp
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Leu Tyr  Gly Leu Ile Thr Leu  Leu Ser Leu Phe Ile
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